

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/014696

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N9/04 C12N15/82 C12P7/22 A01H5/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N C12P A01H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, BIOSIS, EMBASE, Sequence Search, EMBL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	XIA Z-Q ET AL: "Dirigent-mediated podophyllotoxin biosynthesis in Linum flavum and Podophyllum peltatum" PHYTOCHEMISTRY, PERGAMON PRESS, GB, vol. 55, no. 6, November 2000 (2000-11), pages 537-549, XP004291678 ISSN: 0031-9422 figure 7 ----- -/-	1,7,8, 11-13,21

☒ Further documents are listed in the continuation of box C.☐ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

19 January 2005

Date of mailing of the international search report

15/02/2005

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PCT/JP2004/014696

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GANG D R ET AL: "REGIOCHEMICAL CONTROL OF MONOLIGNOL RADICAL COUPLING: A NEW PARADIGM FOR LIGNIN AND LIGNAN BIOSYNTHESIS" CHEMISTRY AND BIOLOGY, CURRENT BIOLOGY, LONDON, GB, vol. 6, no. 3, March 1999 (1999-03), pages 143-151, XP000995932 ISSN: 1074-5521 figure 2	1,7,8, 11-13,21
X	OVERKAMP STEFAN ET AL: "Cloning and characterization of eight cytochrome P450 cDNAs from chickpea (Cicer arietinum L.) cell suspension cultures" PLANT SCIENCE (SHANNON), Vol. 155, no. 1, June 2000 (2000-06), pages 101-108, XP002314013 ISSN: 0168-9452 the whole document	1-9, 11-13,21
X	DATABASE EMBL 'Online!' 12 December 2001 (2001-12-12), "Arabidopsis thaliana cytochrome P450-like protein (F6G17.20) mRNA, complete cds." XP002314014 retrieved from EBI accession no. EM_PRO:AY065192 Database accession no. AY065192 the whole document	1-9,11, 12,21
X	DATABASE EMBL 'Online!' 5 June 2002 (2002-06-05), "Arabidopsis thaliana putative cytochrome P450 protein (At3g28740) mRNA, complete cds." XP002314015 retrieved from EBI accession no. EM_PRO:AY113869 Database accession no. AY113869 the whole document	1-9,11, 12,21
X	DATABASE EMBL 'Online!' 27 August 2001 (2001-08-27), "Arabidopsis thaliana putative cytochrome P450 protein (At3g28740) mRNA, complete cds." XP002314016 retrieved from EBI accession no. EM_PRO:AY050849 Database accession no. AY050849 the whole document	1-9,11, 12,21

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE EMBL 'Online! 14 June 2002 (2002-06-14), "Arabidopsis thaliana clone 253698 mRNA, complete sequence." XP002314017 retrieved from EBI accession no. EM_PRO:AY086486 Database accession no. AY086486 the whole document</p>	1-9, 11, 12, 21
X	<p>JIAO YING ET AL: "Furanofuran lignan metabolism as a function of seed maturation in Sesamum indicum: Methylenedioxy bridge formation" PHYTOCHEMISTRY (OXFORD), vol. 49, no. 2, September 1998 (1998-09), pages 387-394, XP004290112 ISSN: 0031-9422 page 393, right-hand column page 390 - page 392</p>	8, 9
Y		1-7, 10-21
Y	<p>KATO M J ET AL: "Biosynthesis of antioxidant lignans in Sesamum indicum seeds" PHYTOCHEMISTRY, PERGAMON PRESS, GB, vol. 47, no. 4, February 1998 (1998-02), pages 583-591, XP004293758 ISSN: 0031-9422 page 587, left-hand column</p>	1-7, 10-21
P, A	<p>IKEZAWA NOBUHIRO ET AL: "Molecular cloning and characterization of CYP719, a methylenedioxy bridge-forming enzyme that belongs to a novel P450 family, from cultured Coptis japonica cells." JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 278, no. 40, 3 October 2003 (2003-10-03), pages 38557-38565, XP002313984 ISSN: 0021-9258 * published online, JBC Papers in Press, 5 May 2003 * the whole document</p>	1-21
A	<p>SUH MI CHUNG ET AL: "Comparative analysis of expressed sequence tags from Sesamum indicum and Arabidopsis thaliana developing seeds." PLANT MOLECULAR BIOLOGY, vol. 52, no. 6, August 2003 (2003-08), pages 1107-1123, XP002313982 ISSN: 0167-4412 page 1115 - page 1119</p>	1-21

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